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carbons, *Ammonia, *Hexanes, *Cyclohexanes,
*Heptanes, Solvents, Ethylenes, Separation, Liquids.

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DESCRIPTORS: *Acetyl plastics, Production,
*Aldehydes, *Acetaldehydes, Polymerization,
Catalysts, Metalorganic compounds, *Ziegler
catalysts, Group II elements, *Zinc compounds,
*Magnesium compounds, Calcium compounds, Ethyl
radicals, Aluminum compounds, Oxides, Solvents,
Ethers.

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Trans. of [Japanese official patent application] SHO-
32-8361, 4 Apr 57, public announcement 8 Aug 58,
provisional no. SHO-33-6064.

Plating electrolytes were prepared by mixing aqueous
solutions of sodium tungstate (60g/l); sodium citrate
or sodium tartarate (60g/l); hydrazine sulfate (10g/l);
and cobalt, nickel, or iron sulfate (20g/l). Electro-
plating was carried out at 70° to 95°C with a current
density of 5 amp/dm² for 30 minutes. The hydrazine
sulfate solution was added as required. A pH of 8 was
maintained with ammonia or sulfuric acid. Alloys de-
posited on the cathode had the compositions 40%W-
60%Co, 45%W-55%Fe or W-Ni. The plated layer was
more than 3 microns thick and gave strong acid resist-
ance and hardness.

61-15282

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Manufacturing methods, *Industrial production.

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(See also 62-18191)

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DESCRIPTORS: *Ethylene oxide, *Phenols, *Ethynols, *Phenoxy radicals, Chemical reactions, Reaction kinetics.

This paper deals with the measurement of the addition reaction of ethylene oxide with phenol and phenoxy- (Chemistry--Organic, TT, v. 6, no. 12) (over)

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II. Title: Studies...

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Sci - Med

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Order from SLA \$1.60 TT-63-20245

Trans. of Kogyo Kagaku Zasshi (Japan) 1962, v. 65,
p. 1041-1044. (Abstract available)

DESCRIPTORS: *Surface-active substances, *Alcohols,
*Ethylene oxide, Gas chromatography, Catalysts,
Sodium

The molar distribution, which governs the nature of
nontoxic surfacants (surface emulsifiers), was studied,
using gas chromatography, for the ethylene oxide ad-
ducts of eight $C_1 \sim C_4$ alcohols, prepared at 100° and
130°C using metallic sodium as a catalyst. From these
experimental results the distribution constants c of
Weibull and Nycander were obtained, and it was found
that the main factors governing the c -value are the
(Chemistry--Organic, TT, v. 11, no. 2) (over)

TT-63-20245

- I. Title: Adducts
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Chem
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(Polymerization of Propylene Oxide Catalized by Alkali
Metal Alkoxides). 19p. (foreign text included) 10 refs.
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Trans. in French of Kogyo Kagaku Zasshi (Japan) 1959,
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DESCRIPTORS: Carbon compounds, Hydrogen com-
pounds, Oxides, *Polymerization, *Catalysts, Alkali
metals.

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